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Jun 27, 2003

DERWENT-ACC-NO: 2003-518409

DERWENT-WEEK: 200349

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TITLE: Fuel cell system for vehicle, has controller which controls radiator bypass valve and radiator fan, to reduce cooling property of fuel cell, when water excessive state is not changed, even after reducing humidification amount

PATENT-ASSIGNEE:

ASSIGNEE

NISSAN MOTOR CO LTD

CODE

NSMO

PRIORITY-DATA: 2001JP-0378670 (December 12, 2001)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|-----------------|---------------|----------|-------|------------|
| JP 2003178778 A | June 27, 2003 | | 007 | H01M008/04 |

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|---------------|-------------------|----------------|------------|
| JP2003178778A | December 12, 2001 | 2001JP-0378670 | |

INT-CL (IPC): H01 M 8/04; H01 M 8/10

ABSTRACTED-PUB-NO: JP2003178778A

BASIC-ABSTRACT:

NOVELTY - A controller (18) controls a hydrogen humidifier bypass valve (5) and an air humidifier bypass valve (10), to reduce the humidification amount, when water excessive state with respect to a fuel cell (7) is detected. A radiator bypass valve (16) and a radiator fan (5) are controlled, to reduce the fuel cell cooling property, when water excessive state is not changed, even after reduction process.

USE - For vehicles, or domestic cogeneration system.

ADVANTAGE - The water excessive state of the fuel cell is effectively eliminated, and the possibility of the fuel cell deterioration by high temperature is also suppressed due to the cooling property reduction.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the fuel-cell system. (Drawing includes non-English language text).

humidifier bypass valve 5fuel cell 7air humidifier bypass valve 10

radiator bypass valve 16

controller 18

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS: FUEL CELL SYSTEM VEHICLE CONTROL CONTROL RADIATOR VALVE RADIATOR FAN
REDUCE COOLING PROPERTIES FUEL CELL WATER EXCESS STATE CHANGE EVEN AFTER REDUCE
HUMIDIFY AMOUNT

DERWENT-CLASS: X16 X22

EPI-CODES: X16-C01; X16-C09; X22-F01;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2003-411278